

**CONTROL SYSTEM TO AUTOMATICALLY
CONTROL VEHICLE HEADLAMPS**

ABSTRACT OF THE DISCLOSURE

An automatic vehicle headlamp dimming system which includes an optical system and an imaging processing system. The optical system is configured to discriminate between headlamps and tail lamps, and focus the light rays from the headlamps and tail lamps on different portions of a pixel sensor array. The optical system as well as the image processing system provides for relatively increased discrimination of headlamps and tail lamps of other vehicles and also enables the high beam headlamps of the control vehicle to be controlled as a function of the distance as well as horizontal angular position of other vehicles relative to the controlled vehicle.